

Date: Thu, 24 Mar 94 13:41:44 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #325
To: Info-Hams

Info-Hams Digest Thu, 24 Mar 94 Volume 94 : Issue 325

Today's Topics:

 ATTN: ARRL Newington Staff
 Communications to Sarajevo -- update
 Daily Summary of Solar Geophysical Activity for 23 March
 Equipment Users Groups??
 FT-5200: Deaf in Aircraft Band (118-136MHz)?
 FT-5200: Interesting changes after mod
 Grid Squares & Lat/Long
 Is 10M Dead?!
 Kenwood (TS-850) Computer Interface Info Wanted (2 msgs)
 Modifications to the Kenwood TH741???
 Need info on Icom (delta)1A HT
 RF and AF speech processors.
 Voice mail on a repeater?
 Yaesu ft530 question

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 24 Mar 1994 15:21:12 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!udel!news.sprintlink.net!news.clark.net!
andy@network.ucsd.edu
Subject: ATTN: ARRL Newington Staff
To: info-hams@ucsd.edu

Hi Folks...

I will be in Newington on business during the last few days of this

month, and I'm wondering about how far it might be from my hotel on Columbus Boulevard in New Britain to your HQ?

Also, I would appreciate knowing if there any professional videography services that you could recommend in the Newington/New Britain area. Maybe in the past at HQ you may have retained a video production service that you could recommend to me?

Many thanks for your help! andy/k4adl andy@clark.net

Date: Thu, 24 Mar 1994 15:10:29 GMT
From: world!slm@uunet.uu.net
Subject: Communications to Sarajevo -- update
To: info-hams@ucsd.edu

Thanks to all the people who wrote and called their legislators in Washington to support Congressman Markey's efforts to get the UNHCR to agree to fly telecommunications equipment to Sarajevo!!! This satellite switching station would restore international phone service in and out of the city, which was cut off by Serbian forces in the summer of 1992. The UNHCR had denied an initial request to transport the equipment into Sarajevo's airport, saying it wasn't "humanitarian assistance." As a result, one of the few channels of communication in and out of Sarajevo has been ham radio -- this has been going on for more than a year and a half, and our colleagues in Bosnia have really been swamped with request from Bosnians abroad desperate for word of their loved ones trapped in the war.

I JUST RECEIVED WORD FROM CONGRESSMAN MARKEY'S OFFICE TODAY (March 24) THAT UNHCR HAS AGREED TO FLY THE EQUIPMENT INTO SARAJEVO!!!

The equipment should be leaving for Zagreb soon, probably next week. It's hard to predict when it will be transported from the UN warehouse in Zagreb to Sarajevo, that might take a few weeks. Nor, unfortunately, can anyone predict whether there's going to be a problem with Serbian forces trying to block the equipment from going into Sarajevo, I really HOPE not... Finally, I don't know how long it will take once the equipment is in the city to have it connected and functioning. I hope soon!!!!!!

I hope very much that people will soon be able to make regular phone calls between the U.S. and Sarajevo.

Again, thanks to all who supported this effort!!!!!!

Sharon KC1YR

--
electronic address: slm@world.std.com

Date: Wed, 23 Mar 1994 23:38:58 MST
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!
ve6mgs!usenet@network.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 23 March
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

23 MARCH, 1994

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(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 23 MARCH, 1994

NOTE: A large area of strengthening stratospheric warming exists from
southern to eastern Europe and southwestern Siberia.

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 082, 03/23/94
10.7 FLUX=091.8 90-AVG=105 SSN=032 BKI=3432 3321 BAI=013
BGND-XRAY=B1.1 FLU1=2.4E+06 FLU10=1.7E+04 PKI=3533 4322 PAI=017
BOU-DEV=020,060,029,019,025,025,013,008 DEV-AVG=024 NT SWF=00:000
XRAY-MAX= B3.9 @ 2038UT XRAY-MIN= A8.6 @ 1111UT XRAY-AVG= B1.4
NEUTN-MAX= +002% @ 1325UT NEUTN-MIN= -002% @ 2010UT NEUTN-AVG= +0.0%
PCA-MAX= +0.1DB @ 0220UT PCA-MIN= -0.4DB @ 0805UT PCA-AVG= -0.0DB
BOUTF-MAX=55340NT @ 0520UT BOUTF-MIN=55310NT @ 1908UT BOUTF-AVG=55328NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+069,+000,+000
GOES6-MAX=P:+125NT@ 1941UT GOES6-MIN=N:-101NT@ 0505UT G6-AVG=+089,+024,-045
FLUXFCST=STD:095,095,095;SESC:095,095,095 BAI/PAI-FCST=010,010,010/015,015,010
KFCST=3223 4111 1112 3111 27DAY-AP=005,014 27DAY-KP=1112 2121 1254 2232
WARNINGS=
ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 22 MAR 94 was 32.6.
The Full Kp Indices for 22 MAR 94 are: 4+ 3- 2- 3- 5o 3- 3- 3-
The 3-Hr Ap Indices for 22 MAR 94 are: 34 12 7 12 46 12 12 12

Greater than 2 MeV Electron Fluence for 23 MAR is: 2.7E+08

SYNOPSIS OF ACTIVITY

Solar activity was very low. Only a few small flares were observed during the day. Region 7692 (N18W32) showed some development and Region 7693 (N08W70) was decaying. There were indications of some small erupting flux regions near day's end at N08E62 and at S10E45.

Solar activity forecast: solar activity is expected to be very low to low.

The geomagnetic field ranged from quiet to active levels with some brief minor storm periods at high latitudes. The higher levels of activity were limited to the 0300-1500Z time window.

Geophysical activity forecast: the geomagnetic field is expected to be predominantly unsettled for the next three days.

Event probabilities 24 mar-26 mar

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 24 mar-26 mar

A. Middle Latitudes

Active	25/10/10
Minor Storm	10/05/05
Major-Severe Storm	05/01/01

B. High Latitudes

Active	25/10/10
Minor Storm	10/05/05
Major-Severe Storm	05/01/01

Near-normal HF propagation conditions dominated over most regions today. High latitude regions (transauroral paths) experienced some minor signal degradation during the night, but were otherwise near-normal. Similar conditions are expected over the next 72 hours. Near-normal propagation should dominate.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 23/2400Z MARCH

NMBR LOCATION LO AREA Z LL NN MAG TYPE

7692 N18W32 159 0030 CSO 04 004 BETA

7693 N08W70 197 0060 CRO 07 008 BETA

REGIONS DUE TO RETURN 24 MARCH TO 26 MARCH

NMBR LAT LO

7686 N08 037

7684 S08 007

LISTING OF SOLAR ENERGETIC EVENTS FOR 23 MARCH, 1994

BEGIN MAX END RGN LOC XRAY OP 245MHZ 10CM SWEEP

NONE

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 23 MARCH, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
23/ 1952	2038	2119		LDE	B3.9	87		

INFERRED CORONAL HOLES. LOCATIONS VALID AT 23/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

EAST SOUTH WEST NORTH CAR TYPE POL AREA OBSN

NO DATA AVAILABLE FOR ANALYSIS

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
22 Mar:	0620	0643	0700	B3.0						
	1617	1624	1634	B1.7						
	1658	1709	1721	B2.2						

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
	--	--	--	--	--	--	--	--	---	-----
Uncorrelated:	0	0	0	0	0	0	0	0	003	(100.0)

Total Events: 003 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
-----	----	----	----	-----	----	-----	-----	-----
NO EVENTS OBSERVED.								

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

** End of Daily Report **

Date: 24 Mar 1994 16:02:23 GMT
 From: ihnp4.ucsd.edu!swrinde!sgiblab!wrdis02.robins.af.mil!
 lakeith@network.ucsd.edu
 Subject: Equipment Users Groups??
 To: info-hams@ucsd.edu

[Article crossposted from rec.radio.amateur.equipment]
 [Author was CONTRACTOR Larry Keith;653 CCSG/SCT]
 [Posted on 24 Mar 1994 16:00:42 GMT]

I need some help to complete a magazine article that I am writing about buying used ham gear.

Basically, I need names/addresses/phone numbers/internet address (if applicable) of users groups for specific brands or types of equipment. For instance, I know that there is a Collins user group that conducts a weekly net and publishes a newsletter, I think. But, I don't know about Ten-Tec, Icom, Kenwood, Heath, etc..

replies to lakeith@wrdis01.robins.af.mil would be appreciated..

Thanks and 73,

Larry, KQ4BY

Date: 24 Mar 1994 07:53:57 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!newsrelay.iastate.edu!news.iastate.edu!jdwhite@network.ucsd.edu
Subject: FT-5200: Deaf in Aircraft Band (118-136MHz)?
To: info-hams@ucsd.edu

I was wondering if other 5200 owners could receive Air band transmissions. I'm not even sure if the radio will switch to an AM receive mode in those bands. I have performed the extended TX mod.

--
Jason D. White
jdwhite@iastate.edu
Iowa State University
Ames, Iowa
Durham Center Operations Staff
Repeater Chairman, Cyclone Amateur Radio Club
Packet: n0rwu @ ki0q.#cia.ia.usa.na

Date: 24 Mar 1994 07:56:38 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!newsrelay.iastate.edu!news.iastate.edu!jdwhite@network.ucsd.edu
Subject: FT-5200: Interesting changes after mod
To: info-hams@ucsd.edu

After I modified my 5200 for extended TX, I noticed that I could no longer do the automatic repeater offset function. Has anyone else had this problem?

--
Jason D. White
jdwhite@iastate.edu
Durham Center Operations Staff
Repeater Chairman, Cyclone Amateur Radio Club

Iowa State University
Ames, Iowa

Packet: n0rwu @ ki0q.#cia.ia.usa.na

Date: 24 Mar 1994 15:59:34 GMT
From: pa.dec.com!nntpd.lkg.dec.com!n1bwt.enet.dec.com!wade@decwrl.dec.com
Subject: Grid Squares & Lat/Long
To: info-hams@ucsd.edu

-Article 56577 of rec.radio.amateur.misc:
-Newsgroups: rec.radio.amateur.misc
-Subject: Grid Squares & Lat/Long
-From: JAY@medicine.dmed.iupui.edu (Jay Sissom)

-
-Hello!

-
-I recently borrowed a GPS device to calculate my Latitude & Longitude. I
-found a couple of basic programs on Compuserve to calculate my grid square
-from this info. Either something is wrong with the program, or something is
-wrong with the ARRL map in one of their books. Here is my lat/long:

-
-Latitude: 39' 39.303 N
-Longitude: 89' 10.550 W

-
-When I feed these numbers into the programs, I get EM59JP. When I look on the
-map, EM59 is in Illinois and I live in Indianapolis, IN. Is the map wrong, or
-is the basic program wrong?

-
-Thanks
-Jay
-KA9OKT

the program is giving you the right answer for the longitude and
latitude given. grid squares are based on whole degrees of
longitude and latitude, not arbitrary political boundaries.

paul N1BWT

Date: Thu, 24 Mar 94 09:45:30 -0500
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!noc.near.net!news.delphi.com!
usenet@network.ucsd.edu
Subject: Is 10M Dead?!
To: info-hams@ucsd.edu

? I'm from Lancaster, Ohio; near

the big city of Columbus, and run 10-meter mobile in my Jeep with an HTX-100. For some reason, there doesn't seem to be much activity at all across the band. Are we in the low part of the cycle? Or are gremlins inside my radio?

- Steven Stultz
KA8QGN
sqstultz@delphi.com
EMAIL or NEWSNET POST

Date: 24 Mar 94 18:04:22 GMT
From: news-mail-gateway@ucsd.edu
Subject: Kenwood (TS-850) Computer Interface Info Wanted
To: info-hams@ucsd.edu

Text item: Text_1

>A friend is interested in getting details about the computer interface
>"box" used with the Kenwood TS-850. Has anybody built one...?
> -Thanx -Adam (N2DHH)

Hi Adam and anybody else...

I have an ICOM-725 which has a single-line bi-directional TTL-level wired-OR serial asynchronous interface for external control. Is the Kenwood TS-850 the same hardware interface characteristic as the ICOM-725?

thanks and 73, Cecil, KG7BK (I do not speak for Intel on Internet)

Date: 24 Mar 94 15:25:45 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!aries!
hawley@network.ucsd.edu
Subject: Kenwood (TS-850) Computer Interface Info Wanted
To: info-hams@ucsd.edu

adam@panix.com (Adam Epstein) writes:

> A friend is interested in getting details about the computer
>interface "box" used with the Kenwood TS-850. Has anybody built one
>for themselves (rather than buying Kenwood's)? Does anybody have
>schematics? I'm sure that recommendations of commercially available
>software and other hints and kinks would be appreciated as well.
>Email to me (adam@panix.com) and I'll forward your replies.

> -Thanx

> -Adam (N2DHH)

The box is just opto isolators on the signal lines driven by and driving
ttl to line driver level converters (5v to +/-10v). Look thru QST for an
article.....it'll probably cost about the same if you do it right.

Chuck Hawley KE9UW.

Date: 24 Mar 94 18:19:16 GMT
From: news-mail-gateway@ucsd.edu
Subject: Modifications to the Kenwood TH741???
To: info-hams@ucsd.edu

If this is the wrong use of this dl, please forgive me. I have documentation
showing some mods to the Kenwood TH741. The documentation is incomplete. Can
anyone tell me where to access a complete package of the mods. Thanks in
advance.

N6AES

Date: 24 Mar 1994 07:31:12 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!
newsrelay.iastate.edu!news.iastate.edu!jdwhite@network.ucsd.edu
Subject: Need info on Icom (delta)1A HT
To: info-hams@ucsd.edu

I am considering purchasing this tri-band HT and was wondering what kind of
experiences people have had with it. I'm very curious as to how far out of
band it will receive on the three bands and also in any mods there are for it.

Thanks, in advance, for any information you can provide.

-Jason

--

Jason D. White
jdwhite@iastate.edu
Iowa State University
Ames, Iowa

Durham Center Operations Staff
Repeater Chairman, Cyclone Amateur Radio Club
Packet: n0rwu @ ki0q.#cia.ia.usa.na

Date: 24 Mar 94 14:23:01 GMT
From: news-mail-gateway@ucsd.edu

Subject: RF and AF speech processors.
To: info-hams@ucsd.edu

Ignacy Misztal (ignacy@ux2.cso.uiuc.edu) wrote:

>
>: I am wondering why the QST reviews do not mention the type of processing,
>: which has a large effect on signal quality. Signals with audio processing
>: have higher content of AF harmonics, and are subsequently less efficient
>
>I don't understand why audio processing has to result in more audio
>harmonics. Aren't there digital signal processing algorithms that
>could prevent this effect? Even before DSP, didn't people use split
>band audio processing to reduce the content of harmonics?

You can use DSP; it is not that hard to write the appropriate software that will perform a passable attempt at processing, but the really tricky thing [read: needs lots of instructions and a well-specified DSP system] is to get a consistent group-delay characteristic across the audio passband.

Without consistent group delay, the phase relationship between the input and output of the filter is frequency-dependent, which sounds horrible [like someone talking in a tunnel?] and will also cause some strange effects when used for data-modes that depend on consistent group delay characteristics.

Its also necessary to maintain consistent amplitude response across the audio spectrum; if you fail to do this, then for a given level of processed signal at the output, some input frequencies will have been more heavily processed than others. Ideally, you need some form of frequency equalisation before the processor, which has to be tailored to suit the particular users voice, and the response characteristics of the microphone in use.

Peter J.M. Lucas NERC Computer Services Swindon England
pjml@swmis.nsw.ac.uk or pjml@uk.ac.nsw.swmis or g6wbj@gb7sdn.gbr.eu
"Licensed for highway operation at speeds not in excess of 130MPH"

Date: 24 Mar 1994 00:48:54 -0500
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!news1.digex.net!
access3!bote@network.ucsd.edu
Subject: Voice mail on a repeater?
To: info-hams@ucsd.edu

wkinning@nyx10.cs.du.edu (Warren Kinninger) writes:

>Here is a DTMF Tone Generator for the Sound Blaster written in Pascal.

>Jim is working on a repeater controller based around a PC/XT system with
>advanced features like voice mail and macro programming via 1200 baud ASCII.

I have only heard voice mailboxes on the ACC garbage.
I know that other repeater controllers have voice mailboxes.

How does voice mail on a ham repeater perform? I am curious
about actual users' experiences.

If each member has an assigned voice mailbox, then that
might be useful, but it would definitely drive up the volume
of traffic on the repeater as people check in
for messages. Even if the repeater announces that
messages are waiting, that increase in noise itself
could become annoying after a while.

On the other hand, I have begged for certain stations
to reach their destinations or change frequencies
while they incessantly called over and over and
over again for someone to no avail.

Is voice mail something that many hams want on their
favorite repeater?

Comments welcome.

--

rec.nude: your exit to good living along the Information Toll Road.
finger bote@access.digex.net for PGP key and an operator will help you.
Only 10 days until Opening Day! How 'bout them Os!!

Date: Thu, 24 Mar 1994 04:48:44 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!
news.umbc.edu!eff!news.kei.com!ub!csn!col.hp.com!srngenprp!news.dtc.hp.com!
hplextra!rigel!pooley@network.ucsd.edu
Subject: Yaesu ft530 question
To: info-hams@ucsd.edu

The FT-530 does not cover the 800MHZ band with the jumper 13 mod.
It didn't on mine anyway.

fyi,

Chuck
WA6JAM

Date: 24 Mar 1994 15:18:00 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!vixen.cso.uiuc.edu!
ux2.cso.uiuc.edu!ignacy@network.ucsd.edu
To: info-hams@ucsd.edu

References <2m19q1\$25h@hplvec.lvld.hp.com>, <2mn2rd\$ol0@vixen.cso.uiuc.edu>,
<1994Mar23.162557.7558@arrl.org>
Subject : Re: RF and AF speech processors. Was: FT-990 vs TS-850

>I don't understand why audio processing has to result in more audio
>harmonics. Aren't there digital signal processing algorithms that
>could prevent this effect? Even before DSP, didn't people use split
>band audio processing to reduce the content of harmonics?

>>--

>Zack Lau KH6CP/1 2 way QRP WAS
> 8 States on 10 GHz
>Internet: zlau@arrl.org 10 grids on 2304 MHz

Cheap AF processors use AF clippers. DSP-based processors are not only
novelties now, but they are more expensive to build than RF processors.
Why AF clippers are worse than RF (IF) clippers? Consider a 500Hz
tone test. With AF processor you will get extra 1000,1500,2000,2500
Hz tones. With RF (SSB and DSB) processor 500Hz will be the only
output. Please note that some older rigs have "implicit" RF
processors. For instance, SWAN 500 has 7360, a beam deflection tube,
as a DSB modulator. By clipping peaks, it acts with the following XTAL
filter as a DSP processor.

Ignacy Misztal Ham radio: N09E, SP8FWB
Internet: ignacy@uiuc.edu Bitnet: ignacy@uiucvmd.bitnet
University Of Illinois 1207 W. Gregory Dr., Urbana, IL 61801, USA

End of Info-Hams Digest V94 #325

